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International Conferences on Recent Advances  
in Geotechnical Earthquake Engineering and  
Soil Dynamics

2010 - Fifth International Conference on Recent  
Advances in Geotechnical Earthquake  
Engineering and Soil Dynamics

24 May 2010, 7:00 am - 29 May 2010, 1:00 pm

## Conference Schedule

Multiple Authors

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**FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN  
GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS and  
SYMPOSIUM IN HONOR OF PROFESSOR I. M. IDRIS  
SAN DIEGO, CA – MAY 24-29, 2010  
<http://5geoeqconf2010.mst.edu>**

**March 29, 2010  
TENTATIVE  
Conference Program**

**MONDAY, MAY 24, 2010**

- 7:00 AM – 8:00 AM**      **Registration – Short Course – Foyer, Salon F**
- 8:00 AM – 6:00 PM**      **Soil Dynamics in Engineering Practice Short Course – Salons F-G**

**TUESDAY, MAY 25, 2010**

- 8:00 AM – 3:00 PM**      **Short Course (Continued), Salons F-G**
- 1:00 PM – 10:00 PM**      **CONFERENCE REGISTRATION – Foyer, Salon F**
- 4:00 PM – 6:00 PM**      **Meeting of Organizing/Steering Committees – Santa Fe 3-4**
- 6:00 PM – 9:00 PM**      **SET-UP POSTER SESSION 1 – Sierra 5-6**
- SET-UP EXHIBITIONS – Salons ABCD**

**WEDNESDAY, MAY 26, 2010**

- 7:00 AM – 5:00 PM**      **REGISTRATION – Foyer, Salon F**
- 7:00 AM – 8:00 AM**      **Continental Breakfast – Salons ABCD**
- 8:00 AM – 7:00 PM**      **SPOUSES PROGRAM – Sally Prakash (USA) – Santa Fe**

**8:00 AM – 8:30 AM**      **Opening Ceremonies – Salons EFGH**

Shamsher Prakash (USA)– Conference Chairman  
William P. Schonberg (USA) – Chair, Civil, Architectural & Environmental Engineering Dept.,  
Missouri University of Science and Technology  
Welcome:  
Ross Boulanger, Geo-Institute (ASCE)  
Farzad Naeim, EERI  
Ali Maher, USUCGER  
W. Kent Wray, Provost, Missouri University of Science and Technology  
Vote of Thanks

**9:00 AM – 3:30 PM**      **STATE OF THE ART AND PRACTICE LECTURES**

**9:00 AM – 9:45 AM**      **KEYNOTE LECTURE – Salons EFGH**

Chairman: Nick Sitar (USA)  
**W.D. Liam Finn (Canada)**  
Topic: Recent Developments in Geotechnical Earthquake Engineering  
Announcements

**9:45 AM – 10:30 AM**      **SOAP 1 – Salons EFGH**

Chairman: Sanjeev Kumar (USA)  
Speaker: **George Gazetas (Greece)**  
Topic: Soil-Foundation-Structure Systems Beyond Conventional Failure Modes

**10:30 AM – 11:00 AM**      **COFFEE BREAK - VISIT POSTERS/EXHIBITIONS – Salons ABCD, Sierra 5-6**

## WEDNESDAY, MAY 26, 2010 (continued)

### 11:00 AM – 11:30 AM      **OSP 8 – Salons EFGH**

Chairman: Theo Triantafyllidis (Germany)  
Speaker: **Gopal Madabhushi (United Kingdom)**  
Topic: Liquefaction Induced Settlement of Structures

### 11:30AM – 12:00 PM      **OSP 2 – Salons EFGH**

Chairman: Russell A. Green (USA)  
Speaker: **Jonathan D. Bray (USA)**  
Topic: Liquefaction-Induced Movements of Buildings with Shallow Foundations

### 12:00 PM – 12:30 PM      **OSP 9 – Salons EFGH**

Chairman: Chavdar Kolev (Bulgaria)  
Speaker: **Kyle Rollins (USA)**  
Topic: Ground Improvement for Increasing Lateral Pile Group Resistance

**12:30 PM – 1:30 PM**      LUNCH BREAK (Lunch is on your own) – VISIT POSTERS/EXHIBITIONS (VIDEOS) – Sierra 5-6

### 1:30 PM – 2:15 PM      **SOAP 11 – Salons EFGH**

Chairman: Jose L.M. Clemente (USA)  
Speaker: **Bruce Kutter (USA)**  
Topic: Ductility and Failure of Soil-Foundation-Structure Systems during Earthquakes

### 2:15 PM – 2:45 PM      **OSP 13 – Salons EFGH**

Chairman: Subhamoy Bhattacharya (United Kingdom)  
Speaker: **George Mylonakis (Greece)**  
Topic: Incorporating Kinematic Pile Bending into Seismic Codes: Experience from a European National Project

### 2:45 PM – 3:30 PM      **SOAP 6 – Salons EFGH**

Chairman: Don Anderson (USA)  
Speaker: **Takaji Kokusho (Japan)**  
Topic: Case Studies and Energy-Based Evaluation on Travel Distance of Slope Failures During Recent Earthquakes

**3:30 PM – 4:00 PM**      COFFEE BREAK - VISIT POSTERS/EXHIBITIONS (VIDEOS) – Salons ABCD, Sierra 5-6

### 4:00 PM – 4:45 PM      **SOAP 7 – Salons EFGH**

Chairman: Michael K. Sharp (USA)  
Speaker: **Michael Pender (New Zealand)**  
Topic: Integrated Design of Structure-Foundation Systems

## WEDNESDAY, MAY 26, 2010 (continued)

4:45 PM – 6:45 PM

### CONCURRENT SESSIONS 1, 5

#### SESSION 1 – Salon E

“Dynamic Properties of Soils and Soil-Like Materials,  
Engineering Soil Parameters and Constitutive Relations”  
“New Field and Laboratory Methods and Results, Data Base,  
Large Scale Field Tests, Centrifuge Tests”

Chairman: Richard D. Woods (USA)  
Co-Chairmen: Alain Holeyman (Belgium), Amir M. Kaynia  
(Norway)  
General Reporter: Pedro de Alba (USA)  
Co-General Reporters: Kenneth Gavin (Ireland), Monica Prezzi  
(USA), Theo Triantafyllidis (Germany)  
Official Discussers: Sandra Seale (USA), Yu-Feng Jia (China)

4:45 PM – 4:50 PM Chairman opens the Session

4:50 PM – 5:30 PM General Report

5:30 PM – 6:00 PM **OSP 3**

Speaker: **Ikuo Towhata (Japan)**  
Topic: Zero-Gravity Triaxial Shear Tests  
on Mechanical Properties of Liquefied Sand  
and Performance Assessment of Mitigations  
against Large Ground Deformation

6:00 PM – 6:35 PM Discussion from Floor/Replies from  
Authors

6:35 PM – 6:45 PM Remarks by Co-Chairmen and Closure  
by the Chairman

#### SESSION 5 – Salons FGH

“Soil-Structure Interaction under Dynamic Loading, for both Shallow  
and Deep Foundations”  
“Soil-Foundation Interaction Triggered by Seismic Faulting”

Chairman: H. Turan Durgunoglu (Turkey)  
Co-Chairmen: Michele Augeri (Italy)  
General Reporter: George Mylonakis (Greece)  
Co-General Reporters: Nikos Gerolymos (Greece), Achilleas G.  
Papadimitriou (Greece)  
Official Discussor: C. Guney Olgun (USA)

4:45 PM – 4:50 PM Chairman opens the Session

4:50 PM – 5:20 PM General Report

5:20 PM – 5:30 PM **SPL 2 – Shin-Tower Wang (USA)**

“Practical Seismic Design Considering  
Nonlinear Soil-Pile-Structure Interaction”

5:30 PM – 5:40 PM **SPL 4 – Hesham El Naggar (Canada)**

“A Structural Engineer’s Approach To  
Efficient SFSI: Towards Performance  
Based Design”

5:40 PM – 5:50 PM **SPL 14 - C. Guney Olgun (USA)**

“Seismic Response of Columnar Reinforced  
Ground and Implications for Design”

5:50 PM – 6:35 PM Discussion from Floor/Replies from  
Authors

6:35 PM – 6:45 PM Remarks by Co-Chairman and Closure  
by the Chairman

6:45 PM – 8:15 PM

CASH BAR/RECEPTION – Salons ABCD

8:30 PM – 10:00 PM

#### GEER SPECIAL SESSION – Salon EFGH

Haiti and Chile 2010 Earthquakes  
Chairman: Jonathan Bray (USA)

8:30 PM – 8:45 PM

**Jonathan Bray**

Recent Seismic Activity Around the World

8:45 PM – 9:15 PM

**Ellen Rathje**

Geotechnical Aspects and Ground Motions in Haiti

9:15 PM – 9:45 PM

**TBA**

Geotechnical Aspects and Ground Motions in Chile

9:45 PM – 10:00 PM

Discussion from Floor/Replies from Authors

## THURSDAY, MAY 27, 2010

8:00 AM – 5:00 PM	<b>REGISTRATION</b> (Continued) – Foyer, Salon F
7:00 AM – 8:00 AM	<b>Continental Breakfast – Salons ABCD</b>
7:00 AM – 6:00PM	<b>SPOUSES PROGRAM – Sally Prakash (USA) – Santa Fe 3-4</b>
8:00 AM – 7:00 PM	<b>SYMPOSIUM TO HONOR PROFESSOR I.M. IDRISSE – Salons EFGH</b>
8:00 AM – 8:45 AM	<b>SOAP 10 – Salons EFGH</b> Chairman: Lok M.D. Sharma (USA) Speaker: <b>Atilla Ansal (Turkey)</b> Topic: Evaluation and Modelling of the Observed Site Response from Istanbul Strong Motion Network
8:45 AM – 9:15 AM	<b>OSP 11 – Salons EFGH</b> Chairman: Dat Vu Khoa Huynh (Norway) Speaker: <b>Wang Lanmin (China)</b> Topic: Mechanism, Characteristics, Prediction and Prevention of Liquefaction of Loessial Soil
9:15 AM – 9:45 AM	<b>COFFEE BREAK, VISIT POSTERS/EXHIBITIONS (VIDEOS) – Salons ABCD, Sierra 5-6</b>
9:45 AM – 12:30 PM	<b>SPECIAL SESSION TO HONOR PROFESSOR I.M. IDRISSE – Salons EFGH</b> Chairman: TBA Co-Chairman: TBA
9:45 AM – 9:50 AM	Presentation of Bouquet
9:50 AM – 10: 20 AM	IMI-1: <b>Nadania Idriss (Germany)</b> Topic 1: My Dad Topic 2: Architecture as an Expression of Identity: Abbas Hilmi II and the Neo-Mamluk Style
10:20 AM – 10:40 AM	IMI-3: <b>W.D. Liam Finn (Canada)</b> Topic: I.M. Idriss, Pioneer of Earthquake Geotechnical Engineering
10:40 AM – 11:00 AM	IMI-2: <b>James K. Mitchell (USA)</b> Topic: Comparison of Energies Required to Densify Liquefiable Soil
11:00 AM – 11:20 AM	IMI-4: <b>Ricardo Dobry (USA)</b> Topic: Comparison Between Clean Sand Liquefaction Charts Based on Penetration Resistance and Shear Wave Velocity
11:20 AM – 11:40 AM	IMI-5: <b>Kenji Ishihara (Japan)</b> Topic: New Challenges in Geotechnology Addressed by Recent Strong Earthquakes
11:40 AM – 12:00 PM	IMI-6: <b>Ross Boulanger (USA)</b> Topic: Sand Plasticity Model for Nonlinear Seismic Deformation Analyses
12:00 PM – 12:20 PM	IMI-7: <b>Raymond B. Seed (USA)</b> Topic: California's New Seismic Levee Engineering Programs
12:20 PM – 12:30 PM	<b>Professor I.M. Idriss (USA) Responds</b>
12:30 PM– 2:00 PM	<b>LUNCH BREAK</b> (Lunch is on your own)- <b>VISIT POSTERS/EXHIBITIONS (VIDEOS) – Sierra 5-6</b>  (LUNCH TO HONOR PROF. I.M. IDRISSE – BY INVITATION)
2:00 PM – 4:00 PM	<b>SYMPOSIUM TO HONOR PROFESSOR I.M. IDRISSE (continued) – Salons EFGH</b>
2:00 PM – 2:45 PM	<b>SPECIAL SOAP – Salons EFGH</b> Chairman: TBA Speaker: <b>I.M. Idriss (USA)</b> Topic: Most Memorable Project and Lessons for the Geotechnical Engineering Students and Fresh Practitioners

## THURSDAY, MAY 27, 2010 (continued)

- 2:45 PM – 3:15 PM**     **OSP 1 – Salons EFGH**  
Chairman: Sanjeev Malhotra (USA)  
Speaker: **Ross Boulanger (USA)**  
Topic: Effects of Sample Disturbance and Consolidation Procedures on Cyclic Strengths of Intermediate Soils
- 3:15 PM – 4:00 PM**     **SOAP 3 – Salons EFGH**  
Chairman: Thomas F. Zimmie (USA)  
Speaker: **Ricardo Dobry (USA)**  
Topic: Seismic Response of Deep Foundations Subjected to Liquefaction and Lateral Ground Deformation: Integrated Research and Recommendations for Practice
- 4:00 PM – 4:30 PM**     COFFEE BREAK - VISIT POSTERS/EXHIBITIONS (VIDEOS) – Salons ABCD, Sierra 5-6
- 4:30 PM – 6:20 PM**     **SYMPOSIUM TO HONOR PROFESSOR I.M. IDRIS (continued) – Salons EFGH**
- 4:30 PM – 6:20 PM**     **SESSION 4 – Salons EFGH**  
“Liquefaction and Seismically-Induced Settlement, Ground Failures, Seismic Studies of Kobe, Lima Peru, Chile, Pakistan, China, U.S. and other Recent Earthquakes, Spatial Liquefaction”  
“Stability and Displacement Performance of Slopes, Landfills and Earth Dams Under Earthquakes”
- Chairman: Diego LoPresti (Italy)  
Co-Chairman: Peter K. Robertson (USA), Peter Byrne (Canada)  
General Reporter: Ronaldo Luna (USA)  
Co-General Reporter: Mary Perlea (USA), Panos Dakoulas (Greece), Gordon Tung-Chin Kung (Taiwan R.O.C.), Wei Zheng (USA), Usama El Shamy (USA), K. Onder Cetin (Turkey), Simone Barani (Italy)  
Official Discussers: Aniruddha Sengupta (India), Dipanjan Basu (USA)
- 4:30 PM – 4:35 PM**     Chairman opens the Session  
**4:35 PM – 5:05 PM**     General Report  
**5:05 PM – 5:15 PM**     **SPL 3 – Sanjeev Kumar (USA)** – “Ground Improvement to Reduce Liquefaction Potential Using Vibrocompaction and Stone Columns”  
**5:15 PM – 5:25 PM**     **SPL 10 – Rodrigo Salgado (USA)** - “Liquefaction Resistance”  
**5:25 PM – 5:35 PM**     **SPL 12 – Ellen M. Rathje (USA)** – “Recent Advances in Predicting Earthquake-Induced Sliding Displacements of Slopes”  
**5:35 PM – 6:10 PM**     Discussion from the Floor/Replies from Authors  
**6:10 PM – 6:20 PM**     Remarks by the Co-Chairmen and Closure by Chairman
- 5:30 PM – 7:00 PM**     REMOVE POSTERS – SESSION 1 – Sierra 5-6  
DISPLAY POSTERS – SESSION 2 – Sierra 5-6
- 6:00 PM – 7:00 PM**     TC 4 Meeting – Santa Fe 3-4
- 6:20 PM – 7:30 PM**     DINNER BREAK (dinner on your own)

## THURSDAY, MAY 27, 2010 (continued)

7:30 PM – 9:00 PM

CONCURRENT SESSIONS 9, 2

### SESSION 9 – Salon E

“Performance Based Design in Geotechnical Earthquake Engineering”

Chairman: Steven L. Kramer (USA)  
Co-Chairman: Karun Sreerama (USA)  
General Reporter: T.G. Sitharam (India)  
Co-General Reporters: Ikuo Towhata (Japan), K.S. Vipin (India)  
Official Discussers:

**7:30 PM – 7:35 PM** Chairman opens the Session  
**7:35 PM – 7:55 PM** Presentation of the General Report  
**7:55 PM – 8:25 PM** **OSP 12**  
Speaker: **Sissy Nikolaou (USA)**  
Topic: Seismic Design Criteria for Critical Water Supply Facilities Incorporating Performance-Based Concepts  
**8:25 PM – 8:50 PM** Discussions from the Floor/Replies from Authors  
**8:50 PM – 9:00 PM** Remarks by Co-Chairman and Closure by the Chairman

### SESSION 2 – Salons FGH

“Wave Propagation, Engineering Vibrations and Solutions, Vibrations of Machine Foundations, Blast, Traffic and Construction Vibrations, Vibration Absorption”

Chairman: Jost Studer (Switzerland)  
Co-Chairman: Vijay Puri (USA)  
General Reporter: Ethan Dawson (USA)  
Co-General Reporter: C.B. Crouse (USA), Hesham El Naggar (Canada)  
Official Discussers: Aysen Lav (Turkey), Abdul Hayir (Turkey)

**7:30 PM – 7:35 PM** Chairman opens the Session  
**7:35 PM – 8:05 PM** Presentation of the General Report  
**8:05 PM – 8:20 PM** **SPL 5 – Ion Vlad (Romania)**  
“Machine Foundations and Blast Engineering Vibrations Case Studies”  
**8:20 PM – 8:50 PM** Discussions from the Floor/Replies from Authors  
**8:50 PM – 9:00 PM** Remarks by Co-Chairman and Closure by the Chairman

## FRIDAY, MAY 28, 2010

7:00 AM – 8:00 AM	Continental Breakfast – Salons ABCD
8:00 AM – 5:00 PM	REGISTRATION (continued) – Foyer, Salon F
7:00 AM – 6:00 PM	SPOUSES PROGRAM – Sally Prakash (USA) – Santa Fe

8:00 AM – 10:00 AM

### CONCURRENT SESSIONS

8:00 AM – 8:30 AM	<b>OSP 10 – Salon E</b> Chairman: Tensay G. Medhin (Austria) Speaker: <b>T.G. Sitharam (India)</b> Topic: Microzonation of Earthquake Hazards: Experiments in India	8:00 AM – 8:30 AM	<b>OSP 7 – Salons FGH</b> Chairman: Jean Semblat (France) Speaker: <b>Robert Kayen (USA)</b> Topic: Recent Advances in Terrestrial LIDAR Applications in Geotechnical Earthquake Engineering
8:30 AM – 9:15 AM	<b>SOAP 4 – Salon E</b> Chairman: Shailendra Endley (USA) Speaker: <b>Susumu Iai (Japan)</b> Topic: Performance-Based Design of Geotechnical Structures: Recent Advances	8:30 AM – 9:00 AM	<b>OSP 4 – Salons FGH</b> Chairman: Roberto Paolucci (Italy) Speaker: <b>Youssef Hashash (USA)</b> Topic: Recent Advances in Nonlinear Site Response Analysis
9:15 AM – 10:00 AM	<b>SOAP 12 – Salon E</b> Chairman: Sissy Nikolaou (USA) Speaker: <b>J. P. Singh (USA)</b> Topic: TBA	9:00 AM – 9:30 AM	<b>OSP 6 – Salons FGH</b> Chairman: Carsten Floess (USA) Speaker: <b>Neven Matasovic (USA)</b> Topic: Recent Advances in Seismic Design of Geosynthetically-Lined Waste Containment Facilities
		9:30 AM – 10:00 AM	<b><u>SPL 6 and SPL 7 – Salons FGH</u></b> Chairman: Mark Svinkin (USA)
		9:30 AM – 9:45 AM	<b>SPL 6 – Vlad Perlea (USA)</b> – Corps of Engineers Practice in the Evaluation of Seismic Deformation of Embankment Dams
		9:45 AM – 10:00 AM	<b>SPL 7 – Barnali Ghosh (UK)</b> - The Importance of Creating Value in Seismic Design

10:00 AM – 10:30 AM

### Presentation of Shamsher Prakash Awards and Prizes – Salons ABCD

Master of Ceremonies, W.D. Liam Finn (Canada)  
(Past, present and future recipients)  
2008 Research      2009 Research  
2008 Practice      2009 Practice  
**(Please sign up at the Registration Desk)**

10:30 AM – 11:00 AM

### COFFEE BREAK – VISIT POSTERS/EXHIBITIONS – Salons ABCD, Sierra 5-6



## FRIDAY, MAY 28, 2010 (continued)

**11:00 AM – 1:00 PM** **GEER I (Geo-Engineering Extreme Events Reconnaissance) SESSION – Salons EFGH**  
Chairman: Jonathan Bray (USA)

**11:00 AM - 11:10 AM** *Chairman opens the Session*

**Jonathan Bray (USA)**

GEER Overview & Accomplishments

**11:10 AM -11:40 AM** **Brady Cox (USA)**

*Recent GEER Post-Event Reconnaissance*

**Jonathan Stewart (USA) & Francesco Silvestri (Italy)**

2007 Ica-Pisco, Peru Earthquake Reconnaissance

2009 L'Aquila, Italy Earthquake Reconnaissance

**11:40 AM-12:50 PM** **Rob Kayen (USA)**

*Emerging Reconnaissance Technologies & Practice*

**Kazuo Konagai (Japan)**

Reconnaissance Tools & Google Earth

**David Frost (USA)**

Use of New Technologies

**William Holmes (USA)**

Data Collection and Protocols

**Ellen Rathje (USA)**

Impacts from Learning from Earthquakes

**TBA**

Remote Sensing

**12:50 PM - 1:00 PM** *Panel Discussion and Closure by Chairman*

**1:00 PM – 2:00 PM** **LUNCH BREAK (Lunch is on your own) – VISIT POSTERS/EXHIBITION – Salons ABCD, Sierra 5-6**

**2:00 PM – 3:30 PM**

**CONCURRENT SESSIONS 6,7**

### SESSION 6 – Salon E

“Seismic Analysis and Design of Retaining and Marine Structures, Field Studies on Retaining Walls in California, Japan and around the World”

“Seismic Zonation: Earthquake Risk Assessment with Earthquake Risk Management, Microzonation Projects in California and Worldwide, Use of Building Codes to Reduce Earthquake Hazards”

Chairman: Indrajit Chowdhury (UAE)

Co-Chairman: TBA

General Reporter: Alex Sy (Canada)

Co-General Reporters: Ellen Rathje (USA), Hing-Ho Tsang (Hong Kong), Thava Thavaraj (Canada), Yingwei Wu (USA)

Official Discussers: Arul K. Arulmoli (USA)

**2:00 PM – 2:05 PM** Chairman opens the Session

**2:05 PM – 2:35 PM** Presentation of the General Report

**2:35 PM – 2:50 PM** **SPL 16 - Filippo Ciuffi (Italy)**

“An Innovative Procedure for the Rapid Mapping of Urban Earthquake Vulnerability”

**2:50 PM – 3:20 PM** Discussions from the Floor/Replies from Authors

**3:20 PM – 3:30 PM** Remarks by Co-Chairman and Closure by the Chairman

### SESSION 7 – Salons FGH

“Seismic Analysis and Retrofit of Foundations of Bridges and Other Sub-Structures, Seismic Retrofit Projects and Procedures in California”

“Case Histories of Geotechnical Earthquake Engineering, Failures and Geotechnical Analysis of Recent Earthquakes”

“Geotechnical Earthquake Engineering Issues in San Diego Region: Seismic Hazard, Onshore and Offshore Faulting, Near Fault and Directivity Effects, Liquefaction and Lateral Spread, Seismic Retrofit Projects, Seismic Design of Large Projects, Deep Canyon Fills, Landslides, Tsunamis.”

Chairman: Enrique Luco (USA)

Co-Chairman: Leo Handfelt (USA)

General Reporter: Jorge Meneses (USA)

Co-General Reporters: Ioannis Anastosopoulos (Greece)

Official Discussers:

**2:00 PM – 2:05 PM** Chairman opens the Session

**2:05 PM – 2:35 PM** Presentation of the General Report

**2:35 PM – 2:55 PM** **SPL 15 – Anoosh Shamsabadi (USA)**

“Current Seismic Soil-Foundation-Structure Interaction State of the Art and Practice on California Toll Bridge Program”

**2:55 PM – 3:20 PM** Discussions from the Floor/Replies from Authors

**3:20 PM – 3:30 PM** Remarks by Co-Chairman and Closure by the Chairman

**3:30 PM – 4:00 PM** **COFFEE BREAK, VISIT POSTERS/EXHIBITIONS (VIDEOS) – Salons ABCD, Sierra 5-6**

## **FRIDAY, MAY 28, 2010 (continued)**

<b>4:00 PM – 4:45 PM</b>	<b>SOAP 2 – Salons EFGH</b> Chairman: Patrick Fox (USA) Speaker: <b>Pedro S. Seco e Pinto (Portugal)</b> Topic: Stability and Displacements Performance of Slopes, Landfills and Earth Dams
<b>4:45 PM – 5:30 PM</b>	<b>SOAP 9 – Salons EFGH</b> Chairman: Jesus E. Gomez (USA) Speaker: <b>J. David Rogers (USA)</b> Topic: When is the Next New Madrid Fault Earthquake Coming?
<b>5:30 PM – 6:15 PM</b>	<b>SOAP 5 – Salons EFGH</b> Chairman: Jack Pappin (Hong Kong) Speaker: <b>Ahmed Elgamal (USA)</b> Topic: Large-scale Simulation of Ground-Foundation-Structure Systems
<b>6:45 PM – 7:30 PM</b>	<b>CASH BAR RECEPTION – Salons ABCD</b>
<b>7:30 PM – 10:00 PM</b>	<b>BANQUET – Rio Vista Pavilion</b>

## SATURDAY, MAY 29, 2010

**8:00 AM – 1:00 PM**      **REGISTRATION (Continued) – Foyer, Salon F**

**7:00 AM – 8:00 AM**      **Continental Breakfast – Salons ABCD**

**7:00 AM – 1:00 PM**      **SPOUSES PROGRAM- Sally Prakash (USA) – Santa Fe**

### 8:00 AM – 9:30 PM      **CONCURRENT SESSIONS 8, 3**

#### **SESSION 8 – Salon E**

“Model and Full-Scale Tests of Geotechnical Structures Including Centrifuge Tests, Recent Advances from Earthquake Simulation Facilities such as NEES, E-Defense, NCREE”

Chairman: Kyriazis Pitilakis (Greece)  
Co-Chairman: Kenneth H. Stokoe II (USA)  
General Reporter: Tara C. Hutchinson (USA)  
Go-General Reporters: Scott Olson (USA)  
Official Discussers: Camilo Phillips (USA), Scott J. Brandenburg (USA), K.S. Beena (India)

**8:00 AM – 8:05 AM** Chairman opens the Session  
**8:05 AM – 8:25 AM** Presentation of General Report  
**8:25 AM – 8:45 AM** **SPL 13 – Kyriazis Pitilakis (Greece)**  
“The Role of Soil and Site Conditions in the Vulnerability Assessment and Risk of Lifelines and Infrastructures in Thessaloniki Greece”  
**8:45 AM – 9:25 AM** Discussions from the Floor/Replies from Authors  
**9:25 AM – 9:30 AM** Remarks by Co-Chairman and Closure by the Chairman

**9:30 AM – 10:00 AM**      **OSP 5 – Salon E**  
Chairman: Hesham El Naggar (Canada)  
Speaker: **Sabanayagam Thevanayagam (USA)**  
Topic: Liquefaction and Remediation in Silty Soils

#### **SESSION 3 – Salons FGH**

“Engineering Seismology: Near Fault and Directivity Effects, Geologic Indicators of Rupture Direction, Geometric Effects on Ground Motions, Motion Parameters for Design, Borehole Arrays, Interpretation of Field Array Data, Site Amplification”  
“Local Site Effects: One Dimensional Wave Propagation Predictions and Measurements, Nonlinear versus Equivalent Linear Analysis, Effective Stress versus Total Stress Analysis”

Chairman: Thomas Rockwell (USA)  
Co-Chairman: Jonathan P. Stewart (USA)  
General Reporter: Dimitrios Zekkos (USA)  
Co-General Reporters: Adda G. Athanasopoulos-Zekkos (USA), Adimoolam Boominathan (India)  
Official Discussers: Pradeep Kumar Ramancharla (India)

**8:00 AM – 8:05 AM** Chairman opens the Session  
**8:05 AM – 8:25 AM** Presentation of General Report  
**8:25 AM – 8:45 AM** **EQ 5 – Thomas Rockwell (USA)**  
“The Non-Regularity of Earthquake Recurrence in California: Lessons from Long Paleoseismic Records from the San Andreas and San Jacinto Faults in Southern California, and the North Anatolian Fault in Turkey”  
**8:45 AM – 8:55 AM** **SPL 8 – Jorge Meneses (USA)**  
“Dealing in Practice with Selecting and Modifying Earthquake Ground Motions for Nonlinear Analysis”  
**8:55 AM – 9:05 AM** **SPL 1 – Jost Studer (Switzerland)**  
“Site Amplification Studies for NPP Sites in Switzerland within the Project PEGASOS\* and PRP\*”  
**9:05 AM – 9:25 AM** Discussions from the Floor/Replies from Authors  
**9:25 AM – 9:30 AM** Remarks by Co-Chairman and Closure by the Chairman

**10:00 AM – 10:30 AM**      **COFFEE BREAK, VISIT POSTERS/EXHIBITIONS – Salons ABCD, Sierra 5-6**

## **SATURDAY, MAY 29, 2010 (continued)**

<b>10:30 AM – 12:00 PM</b>	<b>GEER II - SPECIAL SESSION ON EARTHQUAKE REPORTS – Salon E</b> Chairman: Jonathan Bray (USA)
<b>10:30 AM – 10:50 AM</b>	<b>EQ 1 – Lanmin Wang (China )</b> Geotechnical Aspects of the 2008 China Earthquake
<b>10:50 AM – 11:05 AM</b>	<b>EQ 2 – Susumu Yasuda (Japan)</b> Geotechnical Aspects of Recent Japan Earthquakes
<b>11:05 AM – 11:20 AM</b>	<b>EQ 3 – Sarfraz Ali (Pakistan)</b> Geotechnical Aspects of Recent Pakistan Earthquakes
<b>11:20 AM – 11:35 AM</b>	<b>EQ 4 – Roberto Paolucci (Italy)</b> Strong Ground Motion in the Epicentral Region of the Mw 6.3, Apr 6 2009 L'Aquila Earthquake, Italy
<b>11:35 AM – 11:50 AM</b>	<b>EQ 6 – Ronaldo Luna (USA)</b> Reconnaissance Report of the May 28, 2009 Honduras Earthquake, M 7.3
<b>11:50 PM – 12:05 PM</b>	<b>EQ 7 – Jennifer Donahue (USA)</b> September 2009 American Samoa Tsunami
<b>12:05 PM – 12:30 PM</b>	Remarks by Chairman and Closure
<b>12:30 PM – 1:00 PM</b>	<b>CONCLUDING SESSION – Salon E</b> Chairman – Shamsher Prakash (USA) Report of the Organizing Committee Comments from the Floor Resolutions
<b>1:00 PM</b>	<b>POST CONFERENCE TOUR – Santa Fe 3-4</b>
<b>1:00 PM</b>	<b>ADJOURN</b> <b>REMOVE POSTER/EXHIBITIONS</b>